Γ	L Number	Hits	Search Text	DB	Time stamp
_	4	94	704/233.ccls. and (compar\$4 with (average mean))	USPAT;	2004/11/09 15:34
			, , , , , , , , , , , , , , , , , , , ,	US-PGPUB;	
				EPO; JPO;	
	_			DERWENT	
	5	4	704/233.ccls. and (compar\$4 with ((spectral spectrum) near3	USPAT;	2004/11/09 15:41
			average))	US-PGPUB;	
			,	EPO; JPO;	
	8	_	704/233 colo and (threehold with ((angeted an atmos)	DERWENT	2004/44/00 45:40
	6	0	704/233.ccls. and (threshold with ((spectral spectrum) near3 average))	USPAT; US-PGPUB;	2004/11/09 15:42
			average))	EPO; JPO;	
				DERWENT	
	7	49	704/233.ccls. and (((spectral spectrum) near3 average))	USPAT;	2004/11/09 15:42
			(((-	US-PGPUB;	
				EPO; JPO;	
				DERWENT	
	-	4359	(signal speech voice data) near (detect detection recognition	USPAT	2003/11/06 10:11
			recognize) and frame and sample and threshold		
	-	386	(signal speech voice data) near (detect detection recognition	USPAT	2003/11/04 10:43
		10-	recognize) and frame and sample and (threshold same valid)		
	-	167	(signal speech voice data) near (detect detection recognition	USPAT	2003/11/04 11:13
İ			recognize) and (frame same sample) and (threshold same		
	_	22	valid) (signal speech voice data) near (detect detection recognition	USPAT	2003/11/04 11:04
	- 	22	recognize) and (frame same sample) and (threshold same	USPAI	2003/11/04 11:01
	-		valid) and 704/\$.ccls.		
	- Ì	6	704/233.ccls. and (threshold same (valid validity)) and	USPAT	2003/11/04 11:02
	Ì		transform	/	
.	-	129	(signal speech voice data) near (detect detection recognition	USPAT	2003/11/06 10:14
			recognize) and (frame same sample) and (threshold same		
		_	valid) and program		
'	-	0	(compostie near signal) and 704/\$.ccls. and (((spectrum	USPAT	2003/11/06 10:15
		_	spectral) near3 energy) same threshold)	LICDAT	000044400 40 47
1	-	0	(compostie near signal) and (((spectrum spectral) near3 energy) same threshold)	USPAT	2003/11/06 10:15
Ι.		0	(compostie near3 signal) and (((spectrum spectral) near3	USPAT	2003/11/06 10:15
			energy) same threshold)	UUFAI	2003/11/00 10,15
.		3542	((accumulator ACC) same frame) (((spectrum spectral) near3	USPAT	2003/11/06 10:16
		· <b>-</b>	energy) same threshold)	30.7.7	
-		5	((accumulator ACC) same frame) and (((spectrum spectral)	USPAT	2003/11/06 10:18
			near3 energy) same threshold)		
1.	•	10	((accumulator ACC) same frame) and ((((spectrum spectral)	USPAT	2003/11/06 10:24
		•	near3 energy) or pitch) same threshold)		
'	•	24	((accumulator ACC) same sample) and ((((spectrum	USPAT	2003/11/06 10:32
	,	24	spectral) near3 energy) or pitch) same threshold) ((accumulator ACC accumulate cumulative adder) near4	LICDAT	2002/44/06 44:00
Ι΄		24	(frame sample input data)) and ((((spectrum spectral) near3	USPAT	2003/11/06 11:00
			energy) or pitch) near3 threshold)		
.	.	1154	((detect detection) near3 (speech voice audio) same (noise	USPAT	2003/11/06 10:41
			composite))	,,,	
-		434	((detect detection) near3 (speech voice audio) near6 (noise	USPAT	2003/11/06 10:42
			composite))		
-	,	4	((detect detection) near3 (speech voice audio) near6 (noise	USPAT	2003/11/06 10:48
	i		composite)) and (((spectral spectrum) near3 energy) near7		
		_	threshold)		
1.	•	0	VAD and (((spectral spectrum) near3 energy) near7	USPAT	2003/11/06 10:48
		0	threshold) and ((validation validate) near6 range) (((spectral spectrum) near3 energy) near7 threshold) and	LICDAT	2002/11/06 10:40
		١	(((spectral spectrum) nears energy) near/ threshold) and ((validation validate) near6 range)	USPAT	2003/11/06 10:49
-		5	VAD and (((spectral spectrum) near3 energy) near7	USPAT	2003/11/06 10:49
		• ]	threshold)	JUI / (1	2000, 11700 10.49
_					

or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac34 static gittches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy") with threshold)  18 ((transfat bloc55 sampl53) near4 ((composite total complete) or (audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac34 static gittches))) and ((transfat bloc55 sampl53) near4 ((composite total complete) or (audio voice wideo telephony computer speech) with (noise error spurrious echo ghost interlac34 static gittches))) and (transfat bloc35 sampl53) near4 ((composite total complete) or (audio voice wideo telephony computer speech) with (noise error spurrious echo ghost interlac34 static gittches))) and (transfat bloc55 sampl53) near4 ((composite total complete) or (audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac34 static gittches))) and (transfat bloc55 sampl53) near4 ((composite total complete) or (audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac34 static gittches))) and (transfat bloc35 sampl53) near4 ((composite total complete) or (audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac34 static gittches))) and (transfat bloc35 sampl53) near4 ((composite total complete) or (audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac34 static gittches))) and (transfat bloc35 sampl53) near4 ((composite total complete) or (audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac34 static gittches))) and (transfat bloc35 sampl53) near4 ((composite total complete) or (audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac34 static gittches))) and (transfat bloc35 sampl53) near4 ((composite total complete) or (audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac34 static gittches))					
(noise error spurrious echo ghost interlac34 static glitches))) and (ftransform DCT FFT Fourier) with (product coefficient number data "spectral energy") and (ftransform DCT FFT Fourier) with (product coefficient number data "spectral energy") with threshold) and (ftransform DCT FFT Fourier) with (product coefficient number data "spectral energy") with threshold) (ftrans73 bloc55 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac34 static glitches)))) and ((ftrans75 bloc55 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac34 static glitches)))) and ((ftrans75 bloc55 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac34 static glitches)))) and ((ftransform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlapshq with frame) and (computer programs3)  6 ((ftrans5 bloc55 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac34 static glitches)))) and ((ftransform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlapshq with frame) and (computer programs3) and (echo near3 detect\$5)  0 ("narrow band noise") with (echo near3 detect\$5)  10 ("narrow band noise") with (echo near3 detect\$6)  10 ("daudio voice video telephony computer speech) with (noise error spurrious echo	- '	5598	((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete)	USPAT	2003/11/07 14:24
and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy") and ((cransform DCT FFT Fourier) with (product coefficient number data") spectral energy") with threshold)  18 ((frams5a bloc55 sampl53) near4 ((composite total complete) or ((audio voice wideo telephony computer speech) with (noise error spurrious echo ghost interlac54 static glitches))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlap with frame) and (computer application) programs3)  9 ((frams5a bloc55 sampl53) near4 ((composite total complete) or ((audio voice wideo telephony computer speech) with (noise error spurrious echo ghost interlac54 static glitches)))) and ((framsform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlap with frame) and (computer programs3) and (computer programs3) and (computer programs3) and (computer operagrams4) and (overlapping with frame) and (computer programs53) and (echo near3 detect55)  6 ((frams5a bloc55 sampl53) near4 ((composite total complete) or ((audio voice wideo telephony computer speech) with (noise error spurrious echo ghost interlac54 static glitches))) and (framsform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlap\$4 with frame) and (computer program\$3) and (echo near3 detect\$5)  10 ('narrow band noise') with (echo near3 detect\$5)  25 ((fram\$3 bloc55 sampl\$3) near4 ((composite total complete) or ((audio voice wideo telephony computer speech) with (noise error spurrious echo ghost interlac54 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection)  10 (fram\$3 bloc55 sampl\$3) near4 ((composite total complete) or ((audio voice wideo telephony computer speech) with (noise error spurrious echo ghost interlac54 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection)			or ((audio voice video telephony computer speech) with		
and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")  218 ((ffam\$3 bloc\$5 sampl\$3) near4 ((composite total complete) (claudio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy") with threshold)  18 ((ffam\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlap with frame) and (computer application) program\$3)  9 ((ffam\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((fransform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlapping with frame) and (computer program\$3)  6 ((ffam\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and (fransform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlap\$4 with frame) and (computer program\$3) and (echo near3 detect\$5)  10 ("narrow band noise") with (echo near3 detect\$5)  25 ((ffam\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((fransform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  25 ((ffam\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((fran\$5 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voic			(noise error spurrious echo ghost interlac\$4 static glitches))))		
number data "spectral energy")  18 (fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 state glitches))) and ((tran\$4 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 state glitches))) and ((tran\$6 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 state glitches))) and ((tran\$6 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 state glitches)))) and ((tran\$6 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 state glitches)))) and ((tran\$6 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 state glitches))) and ((tran\$6 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 state glitches))) and ((tran\$6 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 state glitches))) and ((tran\$6 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 state glitches)))) and ((tran\$6 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 state glitches)))) and ((tran\$6 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 state glitches)))) and ((tran\$6 bloc\$5					
Comparison of the comparison					
or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac4s 4 static glitches))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy") with threshold)  18 ((frams3 bloc55 sampls3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac4s 4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlap with frame) and (computer application programs3) ((frams3 bloc55 sampls3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac4s 4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlapping with frame) and (computer programs3)  ( (frams3 bloc55 sampls3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac4s 4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlap34 with frame) and (computer programs3) and (echo near3 detect35)  0 ("narrow band noise") same (echo near3 detect35) USPAT 00 ("narrow band noise") same (echo near3 detect35) USPAT 00 ("narrow band noise") same (echo near3 detect35) USPAT 00 ("farms3 bloc55 sampls3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac4s 4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  1 ((frams3 bloc55 sampls3)) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurious echo ghost interlac4s 4 stati	_	218		LISDAT	2002/11/07 16:00
(noise error spurrious eche ghost interlac\$4 static glitches))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy") with threshold) ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious eche ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlap with frame) and (computer application program\$3)  ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlapping with frame) and (computer program\$3)  ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlapp\$4 with frame) and (computer program\$3) and (echo near3 detect\$5)  ("narrow band noise") with (echo near3 detect\$5)  ("ranrow band noise") with (echo near3 detect\$5)  ("(fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  1 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and ((transfo	_	210		USPAI	2003/11/07 10.09
and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy") with threshold)  18 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and edon and (overlapping with frame) and (computer application program\$3)  9 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlapping with frame) and (computer program\$3)  6 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlap\$4 with frame) and (computer program\$3) and (echo near3 detect\$5)  10 ("narrow band noise") with (echo near3 detect\$5)  20 ("marrow band noise") with (echo near3 detect\$5)  21 ((ram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  1 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  1 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 s		ľ			
number data "spectral energy") with threshold) (frams3 blocS5 samplS3) near4 ((composite total complete) of ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlacS4 static glitches)))) and ((frams6 mDCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlap with frame) and (computer application programs3)  ((framS3 blocS5 samplS3) near4 ((composite total complete) of ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlacS4 static glitches)))) and ((trans6 mDCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlapping with frame) and (computer programS3)  ((framS3 blocS5 samplS3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlacS4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlapS4 with frame) and (computer programS3) and (echo near3 detectS5)  0 ("narrow band noise") with (echo near3 detectS5) 0 ("narrow band noise") with (echo near3 detectS5) 0 ("narrow band noise") with (echo near3 detectS5) 0 ("narrow band noise") with (echo near3 detectS5) 0 ("narrow band noise") with (echo near3 detectS5) 0 ("narrow band noise") with (echo mear3 detectS5) 0 ("(rams3 blocS5 samplS3) near4 ((composite total complete) or ((audio voice video telephony computer					
18 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((fram\$5 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((fram\$5 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((fram\$5 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((fram\$5 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((fram\$5 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((fram\$5 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((fram\$5 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((fram\$6 bloc\$6 sampl\$3) near4					
or ((audio voice video telephony computer speech) with (noise error spurious echo ghost interlacs4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlap with frame) and (computer application programs3)  9 ((frams3 blocs5 sampls3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlacs4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlapping with frame) and (computer programs3)  6 ((frams3 blocs5 sampls3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlacs4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlaps4 with frame) and (computer programs3) and (echo near3 detect55)  0 ("narrow band noise") with (echo near3 detect\$5)  1 ((frams3 blocs5 sampls3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlacs4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) (frams3 blocs5 sampls3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlacs4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  1 ((frams3 blocs5 sampls3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlacs4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  1 (frams3 blocs0 sampls3) near4 ((composite total complete) or (audio voice video telephony c			number data "spectral energy") with threshold)		*
(noise error spurrious echo ghost interlac&4 static glitches))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlap with frame) and (computer application programs3)  9 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlapping with frame) and (computer programs3)  - 6 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlap\$4 with frame) and (computer programs3) and (echo near3 detect\$5)  - 0 ("narrow band noise") same (echo near3 detect\$5)  - ((audio voice video telephony computer speech) with (noise error spurrious scho ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  - ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  - ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  - ((audio voice	_	18	((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete)	USPAT	2003/11/07 14:50
(noise error spurrious echo ghost interlac&4 static glitches))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlap with frame) and (computer application programs3)  9 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac&4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlapping with frame) and (computer program\$3)  6 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac&4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlap\$4 with frame) and (computer program\$3) and (echo near3 detect\$5)  0 ("narrow band noise") same (echo near3 detect\$5) ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious scho ghost interlac&4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac&4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  1 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac&4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  1 (fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost i					
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frame) and (computer application program\$3) ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlapping with frame) and (computer program\$3)  6 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlap\$4 with frame) and (computer program\$3) and (echo near3 detect\$5)  - 0 ("narrow band noise") with (echo near3 detect\$5) - ("marrow band noise") same (echo near3 detect\$5) - ("marrow band noise") same (echo near3 detect\$5) - ("marrow band noise") same (echo near3 detect\$5) - ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  - 1 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) same noise)  - 20 "echo detection" with noise  - 2003/11/07 16: USPAT 2003/11/07 16: U					
9   ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlapping with frame) and (computer program\$3)   1   1   2003/11/07 15:					
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(noise error spurrious echo ghost interlac\$4 static glitches))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlapping with frame) and (computer program\$3)  6 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlap\$4 with frame) and (computer program\$3) and (echo near3 detect\$5)  - 0 ("narrow band noise") with (echo near3 detect\$5) - ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  - 1 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  - 1 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and ((echo near3 detection) same noise)  - 1 (echo detection" and (speech voice audio) noise with (echo near3 (detect\$4))  - 200 (detect\$4 near2' echo) and (no	-	9		USPAT	2003/11/07 15:48
and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlapping with frame) and (computer program\$3)  ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((fransform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlap\$4 with frame) and (computer program\$3) and (echo near3 detect\$5)  0 ("narrow band noise") with (echo near3 detect\$5)  (fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  1 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  1 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and ((echo with detection) same noise)  2 (echo detection" with noise  3 (echo detection" same noise  3 (detect\$4 near2 echo and (noise near2 cancel\$4) and speech  4 (echo near3 (detection detect cancel cancellation)) with  5 ("signal to noise ratio" "signal-to-noise ratio" SNR)					
and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlapping with frame) and (computer program\$3)  ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((fransform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlap\$4 with frame) and (computer program\$3) and (echo near3 detect\$5)  0 ("narrow band noise") with (echo near3 detect\$5)  1 (fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  1 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  1 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and ((echo with detection) same noise)  2 (echo detection" with noise  3 (echo detection" with noise  3 (echo detection" same noise  4 (echo near3 (detection) and (noise near2 cancel\$4) and speech  4 (echo near3 (detection detect cancel cancellation)) with  5 (echo near3 (detection det			(noise error spurrious echo ghost interlac\$4 static glitches))))		
number data "spectral energy")) and echo and (overlapping with frame) and (computer programs3)  ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlap\$4 with frame) and (computer program\$3) and (echo near3 detect\$5)  0 ("narrow band noise") with (echo near3 detect\$5)  ("marrow band noise") same (echo near3 detect\$5)  ("fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  1 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and ((echo near3 detection) same noise)  1 (fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and ((echo near3 detection) same noise)  2 (betect\$4) (betector and (speech voice audio)			and ((transform DCT FFT Fourier) with (product coefficient		
with frame) and (computer program\$3)  (((ffram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((fransform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlap\$4 with frame) and (computer program\$3) and (echo near3 detect\$5)  ("marrow band noise") with (echo near3 detect\$5)  ("marrow band noise") same (echo near3 detect\$5)  ("fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((fram\$5 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((fram\$5 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((fram\$5 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  ((ffram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches))))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and ((echo near3 detection) same noise)  "echo detection" with noise  "echo detection" with noise  "echo detection" same noise  "echo detection" same noise  USPAT 2003/11/07 16:  19 (echo near3 (detect\$4))  "echo detection" same noise  (detect\$4 near2 echo) and (noise near2 cancel\$4) and speech  (echo near3 (detection detect cancel cancellation)) with  ("signal to noise ratio" "signal-to-noise ratio" SNR)					
6 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlap\$4 with frame) and (computer program\$3) and (echo near3 detect\$5)  - 0 ("narrow band noise") same (echo near3 detect\$5) - 0 ("narrow band noise") same (echo near3 detect\$5) - 1 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) - 25 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer) - 1 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer) - 1 (fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and ((echo near3 detection) same noise) - 2 (audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy") and ((echo near3 detection) same noise) - 2 (audio voice video telephony computer speech) with (audio voice video telephony co					
or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlap\$4 with frame) and (computer program\$3) and (echo near3 detect\$5)  - 0 ("narrow band noise") with (echo near3 detect\$5) - 400 ("frams3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection)  25 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo near3 detection) same noise)  - 10 ("(fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")  - 10 ("(fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((laudio voice video telephony c	<u>-</u>	6		USPAT	2003/11/07 15:56
(noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlap\$4 with frame) and (computer program\$3) and (echo near3 detect\$5)  ("narrow band noise") with (echo near3 detect\$5)  ("frarrow band noise") same (echo near3 detect\$5)  ("frarrow band noise") same (echo near3 detect\$5)  ("frarrow band noise") same (echo near3 detect\$5)  ("frars\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) (fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  1 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  1 (fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and ((echo near3 detection)) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and ((echo near3 detection)) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy") and ((echo near3 detection)) and (transform DCT FFT Fourier) with (product coefficient number data "spectral energy") and (echo near3 detection) and (bransform DCT FFT				33.7	
and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and echo and (overlap\$4 with frame) and (computer program\$3) and (echo near3 detect\$5)  - 0 ("narrow band noise") with (echo near3 detect\$5) - 40 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer) - 11 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer) - 12 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and ((echo near3 detection) same noise) - 16 "echo detection" with noise - 20 "echo detection" with noise - 20 "echo detection" same noise - 20 "echo detection" same noise - 20 "echo detection" same noise - 20 (detect\$4 near2 echo) and (noise near2 cancel\$4) and speech - (detect\$4 near2 echo) and (noise near2 cancel\$4) and speech - (echo near3 (detection detect cancel cancellation)) with - (echo near3 (detection detect cancel cancellation)) with				1	
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40 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer) ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and ((echo near3 detection) same noise)  16 "echo detection" with noise  17 "echo detection" with noise  18 "echo detection" with noise (uspAT 2003/11/07 16: 0.000	-	] 0		USPAT	2003/11/07 15:56
or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  1 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and ((echo near3 detection) same noise)  16 "echo detection" with noise "echo detection" with noise uSPAT 2003/11/07 16: 01 169 noise with (echo near3 (detect\$4)) 01 20 "echo detection" same noise 02 (detect\$4 near2 echo) and (noise near2 cancel\$4) and 03 speech 04 (echo near3 (detection detect cancel cancellation)) with 05 ("signal to noise ratio" "signal-to-noise ratio" SNR)	. <del>-</del>	0	("narrow band noise") same (echo near3 detect\$5)	USPAT	2003/11/07 15:57
or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  1 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and ((echo near3 detection) same noise)  1 (echo detection" with noise 1 (uspart 2003/11/07 16: 0 (speech voice audio) 0 (uspart 2003/11/07 16: 0 (detect\$4 near2 echo) and (noise near2 cancel\$4) and 0 (uspart 2003/11/07 16: 0 (detect\$4 near2 echo) and (noise near2 cancel\$4) and 0 (uspart 2003/11/07 16: 0 (echo near3 (detection detect cancel cancellation)) with 0 (uspart 2003/11/07 16: 0 (detect\$4 near2 echo) and (noise near2 cancel\$4) and 0 (uspart 2003/11/07 16: 0 (echo near3 (detection detect cancel cancellation)) with 0 (uspart 2003/11/07 16: 0 (signal to noise ratio" "signal-to-noise ratio" SNR)	-	40	((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete)	USPAT	2003/11/07 16:09
(noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and ((echo near3 detection) same noise)  "echo detection" with noise "echo detection" with noise "echo detection" and (speech voice audio) noise with (echo near3 (detect\$4))  "echo detection" same noise (detect\$4 near2 echo) and (noise near2 cancel\$4) and speech (echo near3 (detection detect cancel cancellation)) with ("signal to noise ratio" "signal-to-noise ratio" SNR)					
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or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  1 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and ((echo near3 detection) same noise)  1 (echo detection" with noise (uspat 2003/11/07 16: 169 noise with (echo near3 (detect\$4)) (uspat 2003/11/07 16: 169 noise with (echo near3 (detect\$4)) (uspat 2003/11/07 16: 169 noise with (echo near3 (detect\$4)) (uspat 2003/11/07 16: 169 noise with (echo near3 (detect\$4)) (uspat 2003/11/07 16: 169 noise with (echo near3 (detect\$4)) (uspat 2003/11/07 16: 169 noise with (echo near3 (detect\$4)) (uspat 2003/11/07 16: 169 noise with (echo near3 (detect\$4)) (uspat 2003/11/07 16: 169 noise with (echo near3 (detects\$4)) (uspat 2003/11/07 16: 169 noise with (echo near3 (detects\$4)) (uspat 2003/11/07 16: 169 noise with (echo near3 (detection)) with (uspat 2003/11/07 16: 169 noise with (echo near3 (detection)) with (uspat 2003/11/07 16: 169 noise with (echo near3 (detection)) with (uspat 2003/11/07 16: 169 noise with (echo near3 (detection)) with (uspat 2003/11/07 16: 169 noise with (echo near3 (detection)) with (uspat 2003/11/07 16: 169 noise with (echo near3 (detection)) with (uspat 2003/11/07 16: 169 noise with (echo near3 (detection)) with (uspat 2003/11/07 16: 169 noise with (echo near3 (detection)) with (uspat 2003/11/07 16: 169 noise with (echo near3 (detection)) with (uspat 2003/11/07 16: 169 noise with (echo near3 (detection)) with (uspat 2003/11/07 16: 169 noise with (echo near3 (detection)) with (uspat 2003/11/07 16: 169 noise with (echo near3 (detection)) with (echo near3 (detection)) with (uspat 2003/11/07 16: 169 noise with (echo near3 (detection)) wit		25		LICDAT	2002/44/07 46:42
(noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and ((echo near3 detection) same noise)  "echo detection" with noise "echo detector" and (speech voice audio) noise with (echo near3 (detect\$4))  "echo detection" same noise (detect\$4 near2 echo) and (noise near2 cancel\$4) and speech (echo near3 (detection detect cancel cancellation)) with ("signal to noise ratio" "signal-to-noise ratio" SNR)	-	23		USPAT	2003/11/07 10.12
and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and (echo with detection) and (computer)  ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and ((echo near3 detection) same noise)  16 "echo detection" with noise "echo detector" and (speech voice audio) noise with (echo near3 (detect\$4))  20 "echo detection" same noise  20 "echo detection" same noise (detect\$4 near2 echo) and (noise near2 cancel\$4) and speech (echo near3 (detection detect cancel cancellation)) with ("signal to noise ratio" "signal-to-noise ratio" SNR)					
number data "spectral energy")) and (echo with detection) and (computer)  ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and ((echo near3 detection) same noise)  - 16 "echo detection" with noise - 31 "echo detector" and (speech voice audio) noise with (echo near3 (detect\$4)) - 169 "echo detection" same noise - 20 "echo detection" same noise (detect\$4 near2 echo) and (noise near2 cancel\$4) and speech (echo near3 (detection detect cancel cancellation)) with ("signal to noise ratio" "signal-to-noise ratio" SNR)					
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- 1 ((fram\$3 bloc\$5 sampl\$3) near4 ((composite total complete) or ((audio voice video telephony computer speech) with (noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and ((echo near3 detection) same noise)  - 16 "echo detection" with noise     "echo detector" and (speech voice audio)     169 noise with (echo near3 (detect\$4))     "echo detection" same noise     (detect\$4 near2 echo) and (noise near2 cancel\$4) and speech     (echo near3 (detection detect cancel cancellation)) with ("signal to noise ratio" "signal-to-noise ratio" SNR)					
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(noise error spurrious echo ghost interlac\$4 static glitches)))) and ((transform DCT FFT Fourier) with (product coefficient number data "spectral energy")) and ((echo near3 detection) same noise)  - 16 "echo detection" with noise "echo detector" and (speech voice audio) 169 noise with (echo near3 (detect\$4)) 169 "echo detection" same noise 170 "echo detection" same noise 180 (detect\$4 near2 echo) and (noise near2 cancel\$4) and speech 180 (echo near3 (detection detect cancel cancellation)) with ("signal to noise ratio" "signal-to-noise ratio" SNR)				1	
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number data "spectral energy")) and ((echo near3 detection)   same noise)     16					
same noise     same noise       same noise					
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- 31 "echo detector" and (speech voice audio) 169 noise with (echo near3 (detect\$4)) 2003/11/07 16: 2003/11/07		16		LICDAT	2002/44/07 40:00
- 169 noise with (echo near3 (detect\$4)) - 20 "echo detection" same noise - 32 (detect\$4 near2 echo) and (noise near2 cancel\$4) and speech - 19 (echo near3 (detection detect cancel cancellation)) with ("signal to noise ratio" "signal-to-noise ratio" SNR)  USPAT 2003/11/07 16:	-	1			
- 20 "echo detection" same noise - 32 (detect\$4 near2 echo) and (noise near2 cancel\$4) and speech - 19 (echo near3 (detection detect cancel cancellation)) with ("signal to noise ratio" "signal-to-noise ratio" SNR)  USPAT 2003/11/07 16: 2003/11/07	-				2003/11/07 16:33
- 32 (detect\$4 near2 echo) and (noise near2 cancel\$4) and speech - 19 (echo near3 (detection detect cancel cancellation)) with ("signal to noise ratio" "signal-to-noise ratio" SNR)	-	169		1	2003/11/07 16:45
speech (echo near3 (detection detect cancel cancellation)) with ("signal to noise ratio" "signal-to-noise ratio" SNR)	-	20	"echo detection" same noise	USPAT	2003/11/07 16:48
speech (echo near3 (detection detect cancel cancellation)) with ("signal to noise ratio" "signal-to-noise ratio" SNR)	-	32	(detect\$4 near2 echo) and (noise near2 cancel\$4) and	USPAT	2003/11/07 16:49
- 19 (echo near3 (detection detect cancel cancellation)) with USPAT 2003/11/10 09: ("signal to noise ratio" "signal-to-noise ratio" SNR)					
("signal to noise ratio" "signal-to-noise ratio" SNR)	-	19		USPAT	2003/11/10 09:35
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delay)					
	-	16	((number near4 sample) with threshold) and 704/233.ccls.	•	2004/11/08 15:20
US-PGPUB;		[		US-PGPUB;	
EPO; JPO;		1			

-, '	94	((number near4 sample) with threshold) and 704/\$.ccls.	USPAT; US-PGPUB;	2004/11/08 15:26
			EPO; JPO;	
			DERWENT	
l <u>.</u>	22	((number near4 sample) with threshold) and 704/\$.ccls. and	USPAT;	2004/11/08 15:38
		(fourier transform)	US-PGPUB;	2004/11/00 15.50
		(Tourier Gallerenin)	EPO; JPO;	
			DERWENT	
-	119	(number with threshold) and 704/233.ccls.	USPAT;	2004/11/08 15:38
		,	US-PGPUB:	
			EPO; JPO;	
			DERWENT	
-	44	(count\$4 same (number with threshold)) and 704/233.ccls.	USPAT;	2004/11/09 08:47
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
-	66	(count\$4 with frame) and 704/233.ccls.	USPAT;	2004/11/09 09:13
		,	US-PGPUB;	·
			EPO; JPO;	
	36	(count®4 nearE (norometer feature agreeds)) and	DERWENT	0004/44/00 00:47
-	26	(count\$4 near5 (paramater feature sample)) and 704/233.ccls.	USPAT;	2004/11/09 09:17
		1071203,0015.	US-PGPUB; EPO; JPO;	
			DERWENT	
l _	12	(count\$4 near5 (paramater feature sample)) with threshold	USPAT;	2004/11/09 09:21
1		and (vad (voice near3 activity near3 detection))	US-PGPUB:	2004/11/03 03:21
		and (vad (voice floare delivity floare delection))	EPO; JPO;	
			DERWENT	
-	11	(number near5 (paramater feature sample)) with threshold	USPAT;	2004/11/09 09:21
		and (vad (voice near3 activity near3 detection))	US-PGPUB;	
			EPO; JPO;	
			DERWENT	
-	11	704/233.ccls. and vad same (frame with sample)	USPAT;	2004/11/09 10:46
			US-PGPUB;	
			EPO; JPO;	
	20	70.4/000 and a small or deviate for	DERWENT	00044440040
-	38	704/233.ccls. and vad with frame	USPAT;	2004/11/09 10:48
			US-PGPUB;	
			EPO; JPO;	
l _	100	704/233.ccls. and ((determin\$4 detect\$4) near5 speech	DERWENT USPAT;	2004/11/09 10:59
	100	near5 frame)	US-PGPUB;	2004/11/09 10.59
		, near manney	EPO; JPO;	
			DERWENT	
_	0	704/233.ccls. and ((determin\$4 detect\$4) near5 speech	USPAT;	2004/11/09 10:49
		near5 each near3 frame)	US-PGPUB;	
	[	<u> </u>	EPO; JPO;	
			DERWENT	
] -	0	((determin\$4 detect\$4) near5 speech near5 each near3	USPAT;	2004/11/09 10:52
		frame)	US-PGPUB;	
			EPO; JPO;	
			DERWENT	
-	13596	((determin\$4 detect\$4) near5 speech witheach near3 frame)	USPAT;	2004/11/09 10:52
		·	US-PGPUB;	
			EPO; JPO;	
<u>_</u>	0	((determin\$4 detect\$4) near5 speech with each near3 frame)	DERWENT	2004/44/00 40:50
-	"	((determined detected) heard speech with each heard frame)	USPAT; US-PGPUB;	2004/11/09 10:52
			EPO; JPO;	
	]		DERWENT	
_	6	704/233.ccls. and frame near5 voicing	USPAT;	2004/11/09 11:01
			US-PGPUB;	200-7/17/00 11.01
			EPO; JPO;	
			DERWENT	
	·			L

-, +	15	704/233.ccls. and number near6 ((successive consecutive)	USPAT;	2004/11/09 11:56
		near5 (samples features parameters))	US-PGPUB;	
			EPO; JPO;	
			DERWENT	
-	32	704/233.ccls. and echo and tone	USPAT;	2004/11/09 14:35
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
-	14	704/233.ccis. and echo and tone and (overlap\$5)	USPAT;	2004/11/09 14:32
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
-	37	VAD and echo and tone and (overlap\$5)	USPAT;	2004/11/09 14:32
			US-PGPUB;	
	-		EPO; JPO;	
			DERWENT	,
-	14	704/233.ccls. and (tone with speech) and (echo with speech)	USPAT;	2004/11/09 14:38
			US-PGPUB;	
			EPO; JPO;	
			DERWENT	
-	1	09/828400	USPAT;	2004/11/09 14:38
]			US-PGPUB;	
	[ i		EPO; JPO;	
			DERWENT	